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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/053,897	01/24/2002	Kazuo Suto	32014-177530	3818		
75	590 04/11/2003	•				
Venable			EXAMINER			
P.O. Box 34385			CHOE, HENRY			
Washington, DC 20043-9998			CHOE, HENRI			
			ART UNIT	PAPER NUMBER		
			2817			
		DATE MAILED: 04/11/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		10/053,897	897 Suto				
		Examiner Henry Choe		Art Unit 2817			
	The MAILING DATE of this communication appears	on the cover sheet wit	h the corres	pondence addre	ess		
Period for Reply							
THE - Extens mailin - If the - If NO - Failure - Any re	IORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.136 (a). In g date of this communication. period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to reply received by the Office later than three months after the mailing date of	n no event, however, may a reph the statutory minimum of thirty (and will expire SIX (6) MONTHS the application to become ABANI	y be timely filed (30) days will be from the mailin DONED (35 U.S	after SIX (6) MONTH a considered timely. g date of this commu b.C. § 133).			
Status	d patent term adjustment. See 37 CFR 1.704(b).						
1) 💢	Responsive to communication(s) filed on Jan 24, 2	2002					
2a) 🗆		tion is non-final.			•		
3)□							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.							
Disposition of Claims							
4) 💢	Claim(s) <u>1-19</u>		is/are	pending in the	application.		
4a) Of the above, claim(s) is/are withdrawn from consi				om consideration.			
5) 💢	Claim(s) 12-19			is/are allowed.			
6) 💢	Claim(s) 1, 7, 9, and 11		is/are rejected.				
7) 💢	Claim(s) 2-6, 8, and 10 is/are objected to.				to.		
8) Claims are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) \square The drawing(s) filed on <u>Jan 24, 2002</u> is/are a) \square accepted or b) \square objected to by the Examiner.							
	Applicant may not request that any objection to the d						
11)∐	The proposed drawing correction filed on	is: a)□	approved	b)□ disapprov	ed by the Examiner.		
	If approved, corrected drawings are required in reply						
12)	The oath or declaration is objected to by the Exami	iner.					
	under 35 U.S.C. §§ 119 and 120	dado o o o do o OF H O O					
	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C	. § 119(a)-	·(d) or (t).			
a) X All b) Some* c) None of:							
1. X Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
	ntice of References Cited (PTO-892)	4) Interview Summary (PT					
2)							
31 IMT	Official Disclosure Statement(s) (P1O-1449) Paper No(s).	6) U Other:					

Application No.

Applicant(s)

Art Unit:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 7, 9 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Rice et al (Figs. 4 and 6).

Regarding claim 1, Rice et al (Figs. 4 and 6) discloses an oscillator circuit comprising a PLL circuit (35, 45), an AGC circuit (65) which controls a gain of a modulating signal (70) and outputs a control signal (output of 65), a voltage controlled oscillation circuit (55) which controls an oscillation frequency of a signal (50) outputted from the PLL circuit (35, 45) based on the control signal (output of 65) and wherein the voltage controlled oscillation circuit (55) includes a first voltage controlled reactance unit (220 in Fig. 6) which inputs the signal (50) outputted from the PLL circuit (35, 45), a second voltage controlled reactance unit (215 in Fig. 6) which inputs the control signal (output of 65), and a high-frequency oscillation circuit (235, 240) which connects in parallel with the first (220 in Fig. 6) and second (215 in Fig. 6) voltage controlled reactance units which outputs the input signal.

Art Unit:

Regarding claim 7, the first voltage controlled reactance unit (220) includes a first varactor diode and a first capacitor and wherein the cathode of the first varactor diode (D1) is connected to one end of the first capacitor (C1), and the signal (50) outputted from the PLL circuit (35, 45) is inputted where the cathode and the one end are connected each other.

Regarding claim 9, the PLL includes an oscillator (30) which generates the reference signal, a frequency divider (60), and a comparator (35).

Regarding claim 11, the AGC circuit (65) which outputs the control signal (output of 65) on the basis of the signal outputted from the PLL circuit.

Allowable Subject Matter

3. Claims 2-6, 8 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons for Allowance

- 4. Claims 12-19 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter:
 Regarding claim 2, the closest prior art of record, Rice et al (Figs. 4 and 6) does not disclose the following limitations: the cathodes of the first varactor diode and second varactor diode are

Application/Control Number: 10/053897

Art Unit:

connected each other. Regarding claim 10, the closest prior art of record, Rice et al (Figs. 4 and

Page 4

6) does not disclose the following limitations: the AGC circuit outputs the control signal on the

basis of the frequency divided signal. Regarding claim 12, the closest prior art of record, Rice et

al (Figs. 4 and 6) does not disclose the following limitations: a selection circuits which outputs

control signals and second and third voltage controlled reactance units that input the control

signals. Regarding claim 16, the closest prior art of record, Rice et al (Figs. 4 and 6) does not

disclose the following limitations: a selection circuit which outputs control signals on the basis of

the frequency divided signal.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Patent numbers (6,476,684; 4,994,768) are the PLL circuits with the control circuits.

7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Henry Choe whose telephone number is (703) 305-0576. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pascal, can be

reached on (703) 308-4909.

Art Unit:

Name: Henry Choe

Art Unit: 2817

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